

Title (en)

USE OF COPOLYMERS CONTAINING SULFONIC ACID GROUPS, AS AN ADDITIVE IN DETERGENTS AND CLEANSERS

Title (de)

VERWENDUNG VON SULFONS UREGRUPPENHALTIGEN COPOLYMEREN ALS ZUSATZ IN WASCH- UND REINIGUNGSMITTELN

Title (fr)

UTILISATION DE COPOLYMERES CONTENANT DES GROUPES D'ACIDE SULFONIQUE COMME ADJUVANTS DANS LES PRODUITS DETERGENTS

Publication

EP 1516040 B1 20090812 (DE)

Application

EP 03740180 A 20030604

Priority

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Abstract (en)

[origin: DE10225794A1] Sulfonic acid group copolymer composition comprises (a) 30-95 mole% of at least one monoethylenically unsaturated carboxylic acid, (b) 3-35 mole% of at least one sulfonic acid group containing monomers, and (c) 1-35 mole% of nonionic monomer obtained by statistical or block polymerization. Sulfonic acid group copolymer composition comprises: (1) 30-95 mole% of at least one monoethylenically unsaturated carboxylic acid; (2) 3-35 mole% of at least one sulfonic acid group containing monomer of formula (I); and (3) 1-35 mole% of nonionic monomer of formula (II). R = H or Me; R1 = branched 1-4C alkyl; X = chemical bond or -COO-R1; and M = H, alkali metal, or ammonium. R2 = H or Me; R3 = chemical bond or optionally branched 1-6C alkylene; R4 = optionally branched 2-4C alkylene; R5 = optionally branched 1-6C alkyl, 5-8C cycloalkyl, or aryl; n = 3-50. The polymer is obtained by statistical or block polymerization.

IPC 8 full level

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